

Form PTO-1449
(REV. 8-83)

U.S. Department of Commerce
Patent and Trademark Office

Atty. Docket:
0492611-17
(MIT 8966)

In re Application No.
09/981,020

#5

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

MAR 22 2002

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Applicant Kohane, et al.

Filing Date:
October 16, 2001

Group:

U.S. PATENT DOCUMENTS

Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
Senes	6,071,959	Rhodes et al.	June 6, 2000	514	535
	6,046,187	Berde et al.	April 4, 2000	514	180
	6,031,007	Brodin et al.	February 29, 2000	514	716
	5,994,314	Eljamal et al.	November 30, 1999	514	44
	5,985,309	Edwards et al.	November 16, 1999	424	426
	5,942,241	Chasin et al.	August 24, 1999	424	426
	5,874,064	Edwards et al.	February 23, 1999	424	46
	5,855,913	Hanes et al.	January 5, 1999	424	489
	5,567,433	Collins	October 22, 1996	424	450
	5,049,388	Knight et al.	September 17, 1991	424	450

U.S. PATENT APPLICATIONS

Examiner's Initials:	Serial Number:	Applicant:	Filing Date:	Group:	Art Unit:

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No

OTHER DOCUMENTS

Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)
Senes	Allison, "The Mode of Action of Immunological Adjuvants" <i>Dev. Biol. Stand.</i> 92:3-11, 1998.
	Athanasίου, et al., "Sterilization, Toxicity, Biocompatibility and Clinical Applications of Polylactic Acid/Polyglycolic Acid Copolymers", <i>Biomaterials</i> , 17:93-102, 1996.
	Boedecker, et al., "Ultra-Long-Duration Local Anesthesia Produced by Injection of Lecithin-Coated Tetracaine Microcrystals", <i>J. Clin. Pharmacol.</i> 34: 699-702, 1994.
	Brazeau, et al., "Evaluation of PLGA Microspheres Size Effect on Myotoxicity Using the Isolated Rodent Skeletal Muscle Model" <i>Pharm. Dev. Technol.</i> 1:279-283, 1996.
	Castillo, et al., "Glucocorticoids Prolong Rat Sciatic Nerve Blockade in Vivo From

Senes Note Base

1 of 3

May 11, 2003

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)



Applicant Kohane, et al.

Filing Date:
October 16, 2001

Group:

Long3	Bupivacaine Microspheres" <i>Anesthesiology</i> , 85 : 1157-1166, 1996.
	Cotten, et al., "Receptor-Mediated Transport of DNA into Eukaryotic Cells" <i>Methods Enzym.</i> 217 : 618-645, 1993.
	Curley, et al., "Prolonged Regional Nerve Blockade. Injectable Biodegradable Bupivacaine/Polyester Microspheres", <i>Anesthesiology</i> , 84 : 1401-1410, 1996.
	Cutright, et al., "Histologic Comparison of Polylactic and Polyglycolic Acid Sutures" <i>Oral Surg.</i> 32 : 165-173, 1971.
	Decco, et al., "Nebulized Lidocaine in the Treatment of Severe Asthma in Children: A Pilot Study. <i>Ann Allergy Asthma Immunol.</i> 82 : 29-32, 1999.
	Drager, et al., "Prolonged Intercostal Nerve Blockade in Sheep Using Controlled Release Bupivacaine and Dexamethasone From Polyester Microspheres", <i>Anesthesiology</i> , 89 : 969-979, 1998.
	Edwards, et al., "Recent Advances in Pulmonary Drug Delivery Using Large Porous Inhaled Particles", <i>J. Appl. Physiol.</i> 85 : 379-385, 1998.
	Edwards, et al., "Large Porous Particles or Pulmonary Drug Delivery", <i>Science</i> , 276 : 1868-1871, 1997.
	Eldridge, "Biodegradable Microspheres as a Vaccine Delivery System", <i>Mol. Immunol.</i> 28 : 287-294, 1991.
	Estebe, et al., "Prolongation of Spinal Anesthesia with Bupivacaine-Loaded (DL-Lactide) Microspheres", <i>Anesth. Analg.</i> 81 :99-103, 1995.
	Grant, et al., "Prolonged Analgesia with Liposomal Bupivacaine in a Mouse Model", <i>Reg. Anesth.</i> 19 (4): 264-269, 1994.
	Groeben, et al., "Both Intravenous and Inhaled Lidocaine Attenuate Reflex Bronchoconstriction but at Different Plasma Concentrations", <i>Am. J. Respir. Crit. Care Med.</i> 159 : 530-535, 1999.
	Hunt, et al., "Effect of Nebulized Lidocaine on Severe Glucocorticoid -Dependent Asthma", <i>Mayo Clin. Proc.</i> 71 :361-368, 1996.
	Keane, et al., "Comparison of Nebulized and Sprayed Topical Anaesthesia for Fiberoptic Bronchoscopy", <i>Eur. Respir. J.</i> 5 : 1123-1125, 1992.
	Kirkpatrick, et al., "Long Duration Local Anesthesia with Lecithin-Coated Microdroplets of Methoxyflurane: Studies with Rat Skin" <i>Reg. Anesth.</i> 16 : 164-172, 1991.
	Kohane, et al., "A Re-Examination of Tetrodotoxin for Prolonged Anesthesia", <i>Anesthesiology</i> , 89 : 119-131, 1998.
	Kohane, et al., "Sciatic Nerve Blockade with Lipid-Protein-Sugar Particles Containing Bupivacaine" <i>Pharm. Res.</i> 17 :1243-1249, 2000.
	Langer, "New Methods of Drug Delivery", <i>Science</i> , 249 :1527-1533, 1990.
	Le Corre et al., "Preparation and Chacterization of Bupivacaine-Loaded Polylactide and

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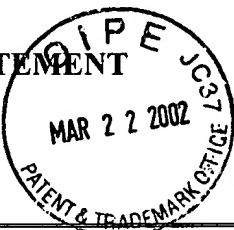
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Long 3	Polylactide-Coglycolide Microspheres" <i>Int. J. Pharmaceut.</i> 107 :41-49, 1994.
	Le Corre, et al., "In Vitro Controlled Release Kinetics of Local Anaesthetics From Poly(D,L-Lactide) and Poly(Lactide-Co-Glycolide) Microspheres" <i>J. Microencaps.</i> 14 : 243-255, 1997.
	Masters, et al., "Prolonged Regional Nerve Blockade by Controlled Release of Local Anesthetic From a Biodegradable Polymer Matrix", <i>Anesthesiology</i> , 79 :340-346, 1993.
	Mathiowitz and Langer, "Polyanhydride Microspheres as Drug Carriers 1. Hot-Melt Microencapsulation", <i>J. Controlled Release</i> , 5 :13-22, 1987.
	Mathiowitz, et al., "Novel Microcapsules for Delivery Systems", <i>Reactive Polymers</i> , 6 :275-283, 1987.
	Mulligan, "The Basic Science of Gene Therapy", <i>Science</i> , 260 : 926-932, 1993.
	Phillips, et al., "Enhanced Antibody Response to Liposome-Associated Protein Antigens: Preferential Stimulation of IgG2a/b Production", <i>Vaccine</i> , 10 : 151-158, 1992.
	Tabata, et al., "Phagocytosis of Polymer Microspheres by Macrophages", <i>Adv. Polymer Sci.</i> 94 : 107-141, 1990.
	Thalhammer et al., "Neurologic Evaluation of the Rat During Sciatic Nerve Block with Lidocaine" <i>Anesthesiology</i> , 82 : 1013-1025, 1995.
	Unkeless, et al., "Structure and Function of Human and Murine Receptors for IgE" <i>Annu. Rev. Immunol.</i> 6 :251-281, 1998.
	van der Elst, et al., "Bone Tissue Response to Biodegradable Polymers Used for Intramedullary Fracture Fixation: A Long-Term In Vivo Study in Sheep Femora" <i>Biomaterials</i> , 20 : 121-128, 1999.
	Wakiyama, et al., "Preparation and Evaluation in Vitro of Polylactic Acid Microspheres Containing Local Anesthetics" <i>Chem. Pharm. Bull.</i> 29 : 3363-3368, 1981.
	Wakiyama et al., "Preparation and Evaluation in Vitro and In Vivo of Polylactic Acid Microspheres Containing Dibucaine", <i>Chem. Pharm. Bull.</i> 30 : 3719-3727, 1982.
	Wall, et al., "Autotomy Following Peripheral Nerve Lesions: Experimental Anaesthesia Dolorosa" <i>Pain</i> , 7 :103-111, 1979.
	Watts, et al., "Microencapsulation Using Emulsification/Solvent Evaporation: An Overview of Techniques and Applications. <i>Crit Rev. Ther. Drug. Carr. Sys.</i> 7 :235-259, 1990.
	Wildsmith, et al., "Differential Nerve Blocking Activity of Amino-Ester Local Anaesthetics", <i>Br. J. Anaesth.</i> 57 : 612-620, 1985.
	Yanez, et al., "Touch-Evoked Agitation Produced by Spinally Administered Phospholipid Emulsion and Liposomes in Rats" <i>Anesthesiology</i> , 82 : 1189-1198, 1995.

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Form PTO-1249 (REV. 8-83)		U.S. Department of Commerce Patent and Trademark Office	
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		Atty. Docket: 0492611-0417 (MIT 8966)	
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		Filing Date: October 16, 2001	Group:

U.S. PATENT DOCUMENTS					
Examiner's Initials	U.S. Patent No.	Applicant	Issue Date	Class	Subclass
Sengs	6,017,513	Betbeder et al.	25 January 2000	424	1.73
↓	5,994,318	Gould-Fogerite et al.	30 November 1999	514	44

U.S. PATENT APPLICATIONS					
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FOREIGN PATENT DOCUMENTS					
Examiner's Initials	Document No.	Country	Date	Translation	
				Yes	No
Sengs	DE 42 01 179	Germany	22 July 1993		
↓	WO 02/09674	PCT WO	07 February 2002		
	WO 00/03660	PCT WO	27 January 2000		
	WO 98/41188	PCT WO	24 September 1998		
	WO 98/06279	PCT WO	19 February 1998		
↓	WO 95/31187	PCT WO	23 November 1995		

OTHER DOCUMENTS	
Examiner's Initials	Citation (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER <i>LQ: Nole Bano</i>	DATE CONSIDERED <i>5/11/03</i>
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